

09837619 CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09837619 on February 27, 2002

|   |           |              |   |
|---|-----------|--------------|---|
| 9 | 380/258   | (2 OR, 7 XR) |   |
|   | Class 380 | :            | CRYPTOGRAPHY  |
|   | 380/255   |              | COMMUNICATION SYSTEM USING CRYPTOGRAPHY                                       |
|   | 380/258   |              | ..Position dependent or authenticating  |
| 8 | 342/457   | (1 OR, 7 XR) |   |
|   | Class 342 | :            | COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES                      |
|   | 342/350   |              | DIRECTIVE   |
|   | 342/450   |              | ..Position indicating (e.g., triangulation)                                   |
|   | 342/457   |              | ..Land vehicle location (e.g., bus, police car)                               |
| 8 | 701/213   | (1 OR, 7 XR) |   |
|   | Class 701 | :            | DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION                  |
|   | 701/200   |              | NAVIGATION  |
|   | 701/207   |              | ..Employing position determining equipment                                    |
|   | 701/213   |              | ..Using Global Positioning System (GPS)                                       |
| 8 | 707/10    | (5 OR, 3 XR) |   |
|   | Class 707 | :            | DATA PROCESSING: DATABASE AND FILE MANAGEMENT, DATA STRUCTURES, OR DOCUMENT P |
|   | 707/1     |              | ROCESSING DATABASE OR FILE ACCESSING  |
|   | 707/10    |              | ..Distributed or remote access  |
| 7 | 701/208   | (1 OR, 6 XR) |   |
|   | Class 701 | :            | DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION                  |
|   | 701/200   |              | NAVIGATION  |
|   | 701/207   |              | ..Employing position determining equipment                                    |
|   | 701/208   |              | ..For use in a map data base system   |
| 7 | 711/147   | (2 OR, 5 XR) |   |
|   | Class 711 | :            | ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MEMORY                   |
|   | 711/100   |              | STORAGE ACCESSING AND CONTROL   |
|   | 711/147   |              | ..Shared memory area  |
| 6 | 340/988   | (1 OR, 5 XR) |   |
|   | Class 340 | :            | COMMUNICATIONS: ELECTRICAL  |
|   | 340/988   |              | VEHICLE POSITION INDICATION   |

09837619\_CLSTITLES

- 6 340/995 (0 OR, 6 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/988 VEHICLE POSITION INDICATION  
     340/995 .Map display
- 6 342/357.06 (0 OR, 6 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite  
     342/357.01 ..With position indicating  
     342/357.06 ...Using Global Positioning Satellite (GPS or  
                     Glonass)
- 6 342/357.1 (4 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite  
     342/357.01 ..With position indicating  
     342/357.06 ...Using Global Positioning Satellite (GPS or  
                     Glonass)  
     342/357.1 ....Combined with telecommunication
- 6 342/357.13 (2 OR, 4 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite  
     342/357.01 ..With position indicating  
     342/357.06 ...Using Global Positioning Satellite (GPS or  
                     Glonass)  
     342/357.13 ....With storage device (i.e., map or database  
 )
- 6 455/456 (3 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/403 RADIOTELEPHONE SYSTEM  
     455/422 .Zoned or cellular telephone system  
     455/456 ..Location monitoring
- 5 342/357.17 (0 OR, 5 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/352 .Including a satellite

09837619 CLSTITLES

342/357.01 ..With position indicating  
 342/357.17 ...With particular action taken responsive to position

5 701/215 (0 OR, 5 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION

701/200 NAVIGATION

701/207 .Employing position determining equipment

701/213 ..Using Global Positioning System (GPS)

701/214 ...Means to improve accuracy of position or location

701/215 ....Having multiple GPS antennas or receivers  
 (e.g., differential GPS)

5 701/50 (5 OR, 0 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
 INDICATION

701/50 .Construction or agricultural-type vehicle  
 (e.g., crane, forklift)

5 707/100 (2 OR, 3 XR)

Class 707 : DATA PROCESSING: DATABASE AND FILE  
 MANAGEMENT, DATA STRUCTURES, OR DOCUMENT P

ROCESSING

707/100 DATABASE SCHEMA OR DATA STRUCTURE

4 455/404 (1 OR, 3 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/404 .Emergency or alarm communication

4 701/201 (1 OR, 3 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION

701/200 NAVIGATION

701/201 .Determination of travel data based on the  
 start point and destination point

4 701/209 (0 OR, 4 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION

701/200 NAVIGATION

701/207 .Employing position determining equipment

701/208 ..For use in a map data base system

701/209 ...Including route searching or determining

09837619\_CLSTITLES  
device

- 4 711/148 (0 OR, 4 XR)  
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MEMORY  
711/100 STORAGE ACCESSING AND CONTROL  
711/147 .Shared memory area  
711/148 ..Plural shared memories
- 3 56/10.2A (1 OR, 2 XR)  
Class 056 : HARVESTERS  
56/10.1 MOTORIZED HARVESTER  
56/10.2R .WITH CONDITION-RESPONSIVE OPERATION  
56/10.2A ..Pre-programmed or remotely controlled
- 3 56/DIG 15 (0 OR, 3 XR)  
Class 056 : HARVESTERS  
56/DIG 15 Condition responsive
- 3 340/825.49 (0 OR, 3 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.36 .Having indication or alarm (e.g., location  
indication)  
340/825.49 ..Location indication
- 3 340/990 (0 OR, 3 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/988 VEHICLE POSITION INDICATION  
340/989 .At remote location  
340/990 ..With map display
- 3 342/357.09 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)  
342/357.09 ....With transmission of location-indicative  
information to or from a remote station
- 3 342/357.15 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite

09837619\_CLSTITLES

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)

342/357.15 ....Satellite selection (i.e., tracking or acquisition)

3 342/450 (0 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

3 707/104.1 (0 OR, 3 XR)

Class 707 : DATA PROCESSING: DATABASE AND FILE MANAGEMENT, DATA STRUCTURES, OR DOCUMENT P

ROCESSING

707/100 DATABASE SCHEMA OR DATA STRUCTURE

707/104.1 .Application of database or data structure (e.g., distributed, multimedia, image)

3 709/203 (0 OR, 3 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/201 .Distributed data processing

709/203 ..Client/server

3 709/228 (2 OR, 1 XR)

Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING

709/227 .Computer-to-computer session/connection establishing

709/228 ..Session/connection parameter setting

3 711/205 (0 OR, 3 XR)

Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MEMORY

711/200 ADDRESS FORMATION

711/202 .Address mapping (e.g., conversion, translation)

711/203 ..Virtual addressing

711/204 ...Predicting, look-ahead

711/205 ....Directories and tables (e.g., DLAT, TLB)

3 711/220 (0 OR, 3 XR)

09837619\_CLSTITLES

Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MEMORY  
711/200 ADDRESS FORMATION  
711/220 .Combining two or more values to create addres

s

- 3 711/5 (3 OR, 0 XR)  
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MEMORY  
711/1 ADDRESSING COMBINED WITH SPECIFIC MEMORY  
CONFIGURATION OR SYSTEM  
711/5 .For multiple memory modules (e.g., banks,  
interleaved memory)
- 2 56/10.2R (2 OR, 0 XR)  
Class 056 : HARVESTERS  
56/10.1 - - - - - MOTORIZED HARVESTER  
56/10.2R .WITH CONDITION-RESPONSIVE OPERATION
- 2 340/825.36 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825 SELECTIVE  
340/825.36 .Having indication or alarm (e.g., location  
indication)
- 2 340/989 (0 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/988 VEHICLE POSITION INDICATION  
340/989 .At remote location
- 2 342/357.04 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.02 ...With accuracy enhancing  
342/357.04 ....With ambiguity resolving
- 2 342/357.08 (2 OR, 0 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

## 09837619 CLSTITLES

342/357.08 ....Determining relative position (e.g.,  
distance or direction)

- 2 375/130 (2 OR, 0 XR)  
Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
375/130 SPREAD SPECTRUM
- 2 380/270 (0 OR, 2 XR)  
Class 380 : CRYPTOGRAPHY  
380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY  
380/270 .Wireless communication
- 2 380/54 (0 OR, 2 XR)  
Class 380 : CRYPTOGRAPHY  
380/54 BY MODIFYING OPTICAL IMAGE (E.G., TRANSMISSIVE  
OVERLAY)
- 2 455/414 (2 OR, 0 XR)  
Class 455 : TELECOMMUNICATIONS  
455/403 RADIOTELEPHONE SYSTEM  
455/414 .Special service
- 2 455/457 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/403 RADIOTELEPHONE SYSTEM  
455/422 .Zoned or cellular telephone system  
455/456 ..Location monitoring  
455/457 ...Location display
- 2 455/575 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
TRANSCEIVER)  
455/575 .Portable or mobile
- 2 460/1 (0 OR, 2 XR)  
Class 460 : CROP THRESHING OR SEPARATING  
460/1 MEANS RESPONSIVE TO A SENSED CONDITION
- 2 701/117 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION  
701/117 .Traffic analysis or control of surface vehicl

e

# 09837619\_CLSTITLES

|           |         |              |  |
|-----------|---------|--------------|--|
| 2         | 701/200 | (0 OR, 2 XR) |  |
|           | Class   | 701 :        | DATA PROCESSING: VEHICLES, NAVIGATION, AND<br>RELATIVE LOCATION                |
|           | 701/200 |              | NAVIGATION   |
| 2         | 701/207 | (1 OR, 1 XR) |  |
|           | Class   | 701 :        | DATA PROCESSING: VEHICLES, NAVIGATION, AND<br>RELATIVE LOCATION                |
|           | 701/200 |              | NAVIGATION   |
|           | 701/207 |              | .Employing position determining equipment                                      |
| 2         | 701/210 | (0 OR, 2 XR) |  |
|           | Class   | 701 :        | DATA PROCESSING: VEHICLES, NAVIGATION, AND<br>RELATIVE LOCATION                |
|           | 701/200 |              | NAVIGATION   |
|           | 701/207 |              | .Employing position determining equipment                                      |
|           | 701/208 |              | ..For use in a map data base system  |
|           | 701/209 |              | ...Including route searching or determining<br>device                          |
|           | 701/210 |              | ....Route correction, modification, or<br>verification                         |
| 2         | 701/300 | (0 OR, 2 XR) |  |
|           | Class   | 701 :        | DATA PROCESSING: VEHICLES, NAVIGATION, AND<br>RELATIVE LOCATION                |
|           | 701/300 |              | RELATIVE LOCATION  |
| 2         | 707/2   | (1 OR, 1 XR) |  |
|           | Class   | 707 :        | DATA PROCESSING: DATABASE AND FILE<br>MANAGEMENT, DATA STRUCTURES, OR DOCUMENT |
| ROCESSING |         |              | P  |
|           | 707/1   |              | DATABASE OR FILE ACCESSING   |
|           | 707/2   |              | .Access augmentation or optimizing   |
| 2         | 707/200 | (0 OR, 2 XR) |  |
|           | Class   | 707 :        | DATA PROCESSING: DATABASE AND FILE<br>MANAGEMENT, DATA STRUCTURES, OR DOCUMENT |
| ROCESSING |         |              | P  |
|           | 707/200 |              | FILE OR DATABASE MAINTENANCE   |
| 2         | 707/4   | (2 OR, 0 XR) |  |
|           | Class   | 707 :        | DATA PROCESSING: DATABASE AND FILE<br>MANAGEMENT, DATA STRUCTURES, OR DOCUMENT |
| ROCESSING |         |              | P  |
|           | 707/1   |              | DATABASE OR FILE ACCESSING   |
|           | 707/3   |              | .Query processing (i.e., searching)  |
|           | 707/4   |              | ..Query formulation, input preparation, or                                     |



09837619\_CLSTITLES  
translation

2 709/213 (1 OR, 1 XR)  
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING  
709/213 .Multicomputer data transferring via shared  
memory

2 709/216 (0 OR, 2 XR)  
Class 709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MULTIPLE COMPUTER OR PROCESS COO

RDINATING

709/200 MULTICOMPUTER DATA TRANSFERRING  
709/213 .Multicomputer data transferring via shared  
memory  
709/216 ..Accessing another computer's memory

2 710/22 (0 OR, 2 XR)  
Class 710 : ELECTRICAL COMPUTERS AND DIGITAL DATA  
PROCESSING SYSTEMS: INPUT/OUTPUT  
710/1 INPUT/OUTPUT DATA PROCESSING  
710/22 .Direct Memory Accessing (DMA)

2 710/306 (2 OR, 0 XR)  
Class 710 : ELECTRICAL COMPUTERS AND DIGITAL DATA  
PROCESSING SYSTEMS: INPUT/OUTPUT  
710/100 INTRASYSTEM CONNECTION (E.G., BUS AND BUS  
TRANSACTION PROCESSING)  
710/305 .Bus interface architecture  
710/306 ..Bus bridge

2 711/130 (0 OR, 2 XR)  
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MEMORY  
711/100 STORAGE ACCESSING AND CONTROL  
711/117 .Hierarchical memories  
711/118 ..Caching  
711/130 ...Shared cache

2 711/141 (1 OR, 1 XR)  
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
SYSTEMS: MEMORY  
711/100 STORAGE ACCESSING AND CONTROL  
711/117 .Hierarchical memories  
711/118 ..Caching  
711/141 ...Coherency

# 09837619\_CLSTITLES

- 2 711/145 (0 OR, 2 XR)  
 Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MEMORY  
 711/100 STORAGE ACCESSING AND CONTROL  
 711/117 .Hierarchical memories  
 711/118 ..Caching  
 711/141 ...Coherency  
 711/145 ....Access control bit
- 2 711/154 (0 OR, 2 XR)  
 Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MEMORY  
 711/100 STORAGE ACCESSING AND CONTROL  
 711/154 .Control technique
- 2 711/203 (1 OR, 1 XR)  
 Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MEMORY  
 711/200 ADDRESS FORMATION  
 711/202 .Address mapping (e.g., conversion,  
 translation)  
 711/203 ..Virtual addressing
- 2 711/206 (1 OR, 1 XR)  
 Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MEMORY  
 711/200 ADDRESS FORMATION  
 711/202 .Address mapping (e.g., conversion,  
 translation)  
 711/203 ..Virtual addressing  
 711/206 ...Translation tables (e.g., segment and page  
 table or map)
- 2 711/207 (1 OR, 1 XR)  
 Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MEMORY  
 711/200 ADDRESS FORMATION  
 711/202 .Address mapping (e.g., conversion,  
 translation)  
 711/203 ..Virtual addressing  
 711/206 ...Translation tables (e.g., segment and page  
 table or map)  
 711/207 ....Directory tables (e.g., DLAT, TLB)
- 2 711/219 (0 OR, 2 XR)  
 Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: MEMORY

09837619 CLSTITLES

711/200 ADDRESS FORMATION  
 711/219 .Incrementing, decrementing, or shifting  
 circuitry

- 2 713/176 (2 OR, 0 XR)  
 Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING  
 SYSTEMS: SUPPORT  
 713/150 MULTIPLE COMPUTER COMMUNICATION USING  
 CRYPTOGRAPHY  
 713/168 .Particular communication authentication  
 technique  
 713/176 ..Authentication by digital signature  
 representation or digital watermark
- 2 725/31 (0 OR, 2 XR)  
 Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS  
 725/28 .Of specific program (e.g., based on program  
 rating)  
 725/31 .With encryption or scrambling of video signal

- 2 725/68 (0 OR, 2 XR)  
 Class 725 : INTERACTIVE VIDEO DISTRIBUTION SYSTEMS  
 725/63 SATELLITE VIDEO DISTRIBUTION SYSTEM  
 725/68 .Receiver